



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/602,976 Confirmation No.: 2062
Applicant: Sommadossi *et al.*
Filed: June 20, 2003
TC/AU.: 1645
Examiner: Unassigned

Docket No.: 06171.105075 IDX 1007 CON3
Customer No.: 20786
Title: Methods and Compositions for Treating Hepatitis C Virus

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

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Respectfully submitted,

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Jennifer A. Williams



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Sheet	1	of	6	Attorney Docket Number	06171.105075 IDX 1007 CON3
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U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pgs, Clmns, Lns, Where Relevant Passages/Relevant Figs Appear
		Number	Kind Code (if known)			
	AA	3,480,613	A	Walton <i>et al.</i>	11-25-1969	
	AB	5,977,061	A	De Clercq	11-02-1999	
	AC	6,340,690	B1	Bachand <i>et al.</i>	01-22-2002	
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	AJ	2002/0147160	A1	Bhat <i>et al.</i>	10-10-2002	
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	AM	2003/0050229	A1	Sommadossi <i>et al.</i>	03-13-2003	
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FOREIGN PATENT DOCUMENTS

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		Office ³	Number	Kind Code ² (if known)				
	AQ	FR	1,521,076	A	Merck & Co. Inc.	04-12-1968		
	AR	FR	1,581,628	A	Merck & Co. Inc.	09-19-1969		
	AS	FR	2,662,165	A	Univ. Paris Curie	11-22-1991		
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	AV	JP	63-215694	A	Yamasa Shoyu Co. Ltd.	09-08-1988		
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	AZ	WO	00/09531	A2	Novirio Pharm. (Idenix)	02-24-2000		
	AAA	WO	01/32153	A2	Biochem Pharma	05-10-2001		

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		Office ³	Number				
BA	WO	01/60315	A2	Biochem Pharma	08-23-2001		
BB	WO	01/68663	A1	ICN Pharmaceuticals	09-20-2001		
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BS	WO	03/051899	A1	Ribapharm	06-26-2003		
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BY	WO	03/063771	A2	Pharmasset	08-07-2003		
BZ	WO	03/068162	A2	Pharmasset	08-21-2003		
BAA	WO	03/072757	A2	Biota Inc.	09-04-2003		
BAB	WO	03/093290	A2	Genelabs Technologies	11-13-2003		
BAC	WO	04/002422	A2	Idenix; Univ.D.S.Cagliari	01-08-2004		
BAD	WO	04/002999	A2	Idenix; Univ.D.S.Cagliari	01-08-2004		

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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	CA	ALTMANN <i>et al.</i> , "The synthesis of 1'-methyl carbocyclic thymidine and its effect on nucleic acid duplex stability," <i>Synlett, Thieme Verlag, Stuttgart, De</i> , 10:853-855 (1994).	
	CB	BAGINSKI, S. G., <i>et al.</i> , "Mechanism of action of a pestivirus antiviral compound," <i>PNAS USA</i> , 97(14):7981-7986 (2000).	
	CC	BEIGELMAN, L.N., <i>et al.</i> , "Epimerization during the acetolysis of 3-O-acetyl-5-O-benzoyl-1,2-O-isopropylidene-3-C-methyl- α ,D-ribofuranose. Synthesis of 3'-C-methylnucleosides with the β -D-ribo- and α -D-arabino configurations," <i>Carbohydrate Research</i> , 181:77-88 (1988).	
	CD	BEIGELMAN, L.N., <i>et al.</i> , "A general method for synthesis of 3'-C-alkylnucleosides," <i>Nucleic Acids Symp. Ser.</i> , 9:115-118 (1981).	
	CE	BERENGUER, M., <i>et al.</i> , "Hepatitis B and C viruses: Molecular identification and targeted antiviral therapies," <i>Proceedings of the Association of American Physicians</i> , 110(2), 98-112 (1998).	
	CF	CARROLL, S.S., <i>et al.</i> , "Inhibition of hepatitis C virus RNA replication by 2'-modified nucleoside analogs," <i>The Journal of Biological Chemistry</i> , 278(14):11979-11984 (2003).	
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	CI	FAIVRE-BUET, V., <i>et al.</i> , "Synthesis of 1'-deoxypsicolfuransyl-deoxynucleosides as potential anti-HIV agents," <i>Nucleosides & Nucleotides</i> , 11(7):1411-1424 (1992).	
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	CN	GROUILLER, A., <i>et al.</i> , "Novel p-toluenesulfonylation and thionocarbonylation of unprotected thymine nucleosides," <i>Synlett</i> , 1993, 221-222 (March 1993).	
	CO	HARAGUCHI, K., <i>et al.</i> , "Preparation and reactions of 2'- and 3'- vinyl bromides of uracil nucleosides: Versatile synthons for anti-HIV agents," <i>Tetrahedron Letters</i> , 32(28):3391-3394 (1991).	

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	DA	HARAGUCHI, K., et al., "Stereoselective synthesis of 1'-C-branched uracil nucleosides from uridine," <i>Nucleosides & Nucleotides</i> , 14(3-5):417-420 (1995).
	DB	HARRY-O'KURU, R.E., et al., "A short, flexible route toward 2'-C-branched ribonucleosides", <i>J.Org. Chem.</i> , 62:1754-1759 (1997). (Scheme 11).
	DC	HARRY-O'KURU, R.E., et al., "2'-C-Alkyribonucleosides: Design, synthesis, and conformation," <i>Nucleosides & Nucleotides</i> , 16(7-9):1457-1460 (1997). ["Rogers" in #2; correct name in #7]
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	DH	ITOH, Y., et al., "Divergent and stereocontrolled approach to the synthesis of uracil nucleosides branched at the anomeric position," <i>J. Org. Chem.</i> , 60(3):656-662 (1995).
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	DJ	KAWANA, M., et al., "The deoxygenation of tosylated adenosine derivatives with Grignard reagents," <i>Nucleic Acids Symp. Ser.</i> , 17:37-40 (1986).
	DK	LAVAIRE, S., et al., "3'-Deoxy-3'-C-trifluoromethyl nucleosides: Synthesis and antiviral evaluation," <i>Nucleosides & Nucleotides</i> , 17(12):2267-2280 (1998).
	DL	LEYSEN, P. et al., "Perspectives for the treatment of infections with <i>Flaviviridae</i> ," <i>Clinical Microbiology Reviews</i> (Washington, D.C.), 13(1):67-82 (January 2000).
	DM	MARTIN, X., et al., "Intramolecular hydrogen bonding in primary hydroxyl of thymine 1-(1-deoxy-β-D-psicofuranosyl) nucleoside," <i>Tetrahedron</i> , 50(22):6689-6694 (1994).
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	DO	MATSUDA, A., et al., "Alkyl addition reaction of pyrimidine 2'-ketonucleosides: Synthesis of 2'-branched-chain sugar pyrimidine nucleosides (Nucleosides and Nucleotides. LXXXI)," <i>Chem. Pharm. Bull.</i> , 36(3):945-953 (1988).

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	EA	MATSUDA, A., et al., "Nucleosides and Nucleotides. 94. Radical deoxygenation of <i>tert</i> -alcohols in 1-(2-C-alkylpentofuranosyl)pyrimidines : Synthesis of (2'S)-2'-deoxy-2'-C-methylcytidine, an antileukemic nucleoside," <i>J. Med. Chem.</i> , 34:234-239 (1991).	
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	EF	NUTT, R.F., et al., "Branched-chain sugar nucleosides. III. 3'-C-methyladenine", <i>J.Org. Chem.</i> , 33:1789-1795 (1968).	
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	EI	Oral Session V, Hepatitis C Virus, Flaviviridae; 16 th International Conference on Antiviral Research (April 27, 2003, Savannah, Ga.) p A75-77.	
	EJ	PAN-ZHOU, X-R, et al., "Differential effects of antiretroviral nucleoside analogs on mitochondrial function in HepG2 cells," <i>Antimicrob. Agents Chemother.</i> , 44:496-503 (2000).	
	EK	ROSENTHAL, A., et al., "Branched-chain sugar nucleosides. Synthesis of 3'-C-ethyl (and 3'-C-butyl)uridine <i>Carbohydrate Research</i> , 79:235-242 (1980).	
	EL	SAMANO, V., et al., "Synthesis and radical-induced ring-opening reactions of 2'-deoxyadenosine-2'-spirocyclopropane and its uridine analogue. Mechanistic probe for ribonucleotide reductases," <i>J. Am. Chem. Soc.</i> , 114:4007-4008 (1992).	

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Application Number	10/602,976
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First Named Inventor	Sommadossi et al.
Group Art Unit	1645
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Attorney Docket Number	06171.105075 IDX 1007 CON3

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. ²	T ³
	FA	SAMANO, V., et al., "Nucleic acid related compounds. 77. 2',3'-Didehydro-2',3'-dideoxy-2'(and 3')-methylnucleosides via [3,3]-sigmatropic rearrangements of 2'(and 3')-methylene-3'(and 2')-O-thiocarbonyl derivatives and radical reduction of a 2'-chloro-3'-methylene analogue," <i>Can. J. Chem.</i> , 71:186-191 (1993).	
	FB	SCHMIT, C., et al., "The effects of 2'- and 3'-alkyl substituents on oligonucleotide hybridization and stability," <i>Biorganic & Medicinal Chemistry Letters</i> , 4(16):1969-1974 (1994). ["Altmann"]	
	FC	SERAFINOWSKI, P.J., et al., "New method for the preparation of some 2'- and 3'-trifluoromethyl-2',3'-dideoxyuridine derivatives," <i>Tetrahedron</i> (Elsevier Science Publishers), 56(2):333-339 (1999).	
	FD	SHARMA, P.K., et al., "Synthesis of 3'-trifluoromethyl nucleosides as potential antiviral agents," <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 19(4):757-774 (2000).	
	FE	SOMMADODSSI J-P., et al., "Comparison of cytotoxicity of the (-)- and (+)-enantiomer of 2',3'-dideoxy-3'-thiacytidine in normal human bone marrow progenitor cells" <i>Biochemical Pharmacology</i> , 44:1921-1925 (1992).	
	FF	SOMMADODSSI J-P., et al., "Toxicity of 3'-azido-3'-deoxythymidine and 9-(1,3-dihydroxy-2-propoxymethyl)guanine for normal human hematopoietic progenitor cells in vitro" <i>Antimicrobial Agents and Chemotherapy</i> , 31:452-454 (1987).	
	FG	TRITSCH, D., et al., "3'-β-ethynyl and 2'-deoxy-3'-β-ethynyl adenosines: First 3'-β-branched adenosines substrates of adenosine deaminase," <i>Biorganic & Medicinal Chemistry Letters</i> , 10:139-141 (2000).	
	FH	TUNITSKAYA, V.L., et al., "Substrate properties of C'-methyl UTP derivatives in T7 RNA polymerase reactions. Evidence for N-type NTP conformation," <i>FEBS Letters</i> , 400:263-266 (1997).	
	FI	USUI, H., et al., "Synthesis of 2'-deoxy-8,2'-ethanoadenosine and 3'-deoxy-8,3'-ethanoadenosine (Nucleosides and Nucleotides. LXIV)," <i>Chem. Pharm. Bull.</i> , 34(1):15-23 (1986).	
	FJ	WALCZAK, K., et al., "Synthesis of 1-(3-alkyl-2,3-dideoxy-D-pentofuranosyl)uracils with potential anti-HIV activity," <i>Acta Chemica Scand.</i> , 45:930-934 (1991).	
	FK	WALTON, E., et al., "Branched-chain sugar nucleosides. V. Synthesis and antiviral properties of several branched-chain sugar nucleotides," <i>J. Med. Chem.</i> , 12:306-309 (1969).	
	FL	WOLFE, M.S., et al., "A concise synthesis of 2'-C-methylribonucleosides," <i>Tetrahedron Letters</i> , 36(42):7611-7614 (1995).	
	FM	WU, J.-C., et al., "A new stereospecific synthesis of [3.1.0] bicyclic cyclopropano analog of 2',3'-dideoxyuridine, <i>Tetrahedron</i> , 46(7):2587-2592 (1990).	

Examiner Signature	Date Considered
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